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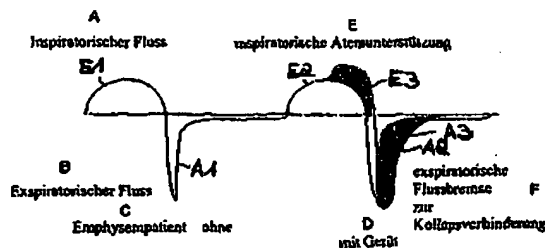
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(54) Title: METHOD AND ARRANGEMENT FOR RESPIRATORY SUPPORT FOR A PATIENT AIRWAY PROSTHESIS AND
CATHETER



[continued on next page]

**A INHALATION FLOW
B EXHALATION FLOW
C EMPHYSEMA PATIENT WITHOUT
D WITH DEVICE
E INHALATION RESPIRATORY SUPPORT
F EXHALATION FLOW RETARDATION FOR COLLAPSE AVOIDANCE**

(57) Abstract: The invention relates to a method and an arrangement for respiratory support for a patient and an airway prosthesis. The spontaneous breathing of a patient is recorded with sensors and an additional amount of oxygen administered by means of a jet gas flow at the end of a lung inhalation process. Oxygen uptake on inhalation is thus improved. Where necessary, the exhalation process of the patient can be retarded by a counter-current to prevent a collapse of the airways. The above manner of proceeding is achieved by means of an arrangement, comprising an oxygen pump connected to an oxygen source and an airway prosthesis, which may be connected by means of a catheter. The spontaneous breathing of the patient is recorded by means of sensors, connected to a Controller, for activating the oxygen pump. The airway prosthesis has a tubular nozzle body with a connector for the catheter, whereby two of the sensors are provided on the nozzle body. The airway prosthesis and the integrated or introduced jet catheter are of such a size that the patient may breathe and speak freely.

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EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT,
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